

Demonstration of Integrated Distributed Testing

31 Aug – 2 Sept 2004

Army Test & Evaluation Command
Developmental Test Command
Virtual Proving Ground

Distributed Test Event 4



*Distributed Test & Evaluation
Enabling the Future Force*

Hosted by Developmental Test Command

- Aberdeen Test Center
- Aviation Technical Test Center
- Dugway Proving Ground
- Electronics Proving Ground
- Redstone Technical Test Center
- White Sands Missile Range
- Yuma Proving Ground



Background

The Army Test and Evaluation Command (ATEC) Developmental Test Command's (DTC) Virtual Proving Ground (VPG) is leading a spiral development process in conducting iterative and increasingly complex distributed exercises. The intent of the exercises is to demonstrate the successful integration and interoperability of test assets at differing maturity levels, constructive, virtual, or live representations, for supporting large scale testing under a common tactical environment. Distributed testing enables the utilization of fixed test capabilities located at geographic disparate sites to execute in a concerted effort for delivering higher fidelity data, providing test data more rapidly to subject matter experts for evaluation, and reducing test cost through leveraging test capabilities and expertise from multiple test locations. This results in a higher quality of testing on acquisition systems and ensuring our Soldiers receive the best state-of-the-art systems available for successfully completing their missions.

Description

The DTE 4 demonstration includes test capabilities that are located throughout the United States at the Developmental Test Command Test Centers and CECOM's Night Vision Laboratories. DTE 4 includes the integration and interoperability of test assets and capabilities at varying maturity levels of development. In DTE 4, test items are represented as either a constructive, virtual, or live model and simulation or actual platform. Constructive representations will include the small-unmanned ground vehicle (SUGV), unattended ground sensors (UGS), and intelligent munitions systems (IMS). Virtual representations include armed robotic vehicle (ARV), Blackhawk helicopter, Stryker vehicle, reconnaissance and surveillance vehicle (R&SV), infantry carrier vehicle (ICV), unmanned aerial vehicles (UAV), and mounted combat system (MCS). Actual live platforms include Stryker vehicles, non line of sight cannon (NLOS-C), unmanned aerial vehicles (UAV), and T-72s. The sites are at different geographic locations, different time zones involving both people, computers, and live platforms conducting a synchronized demonstration in real-time. Site to site communications are accomplished through the use of a high-capacity CONUS network provided by the DoD High Performance Computing Modernization Program (HPCMP) Defense Research and Engineering Network (DREN). The technologies utilized for accomplishing these activities are the following: High Level Architecture-compliant models, Distributed Interactive Simulation applications, Test and Training Enabling Architecture (TENA), live test platforms, human operators and data collection devices all interoperating in a concerted fashion under a common operational scenario.

Agenda

The DTE 4 demonstration coincides with Test Week 2004, held at the Von Braun Center, South Hall in Huntsville, AL. Test Week 2004 is a combined conference between the Army Test and Evaluation Days Conference and the International Test and Evaluation Association Annual International Symposium. DTC is sponsoring a DTE 4 booth at the conference that will be available in the exhibit hall for displaying DTE 4 activities, coordinating demonstration transportation and answering additional questions.

The DTE 4 demonstration schedule will include two sessions per day on Tuesday (31 Aug) and Thursday (2 Sept) starting at 10:00 am and 3:00 pm for a duration of two hours. The duration includes transport time from the Test Week 2004 conference, viewing the demonstration at the Redstone Technical Test Center, building 4500, and returning to the conference. The assembly area for the demonstration is the DTE 4 booth located in the exhibit hall and will require participants to gather 30 minutes prior to the departure time of 10:00 am and 3:00 pm. Participants will be required to provide DoD picture identification and be listed on the participant registration list for the specified session before boarding. Each session is limited to 20 participants and will be organized on a first come basis.

DTE 4 can also be viewed at one of the other participating sites for those unable to attend Test Week 2004.

Registration and Visit Request

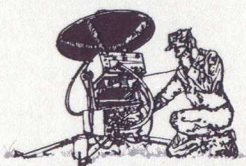
Participants must be registered Test Week 2004 attendees and pre-register for the DTE 4 demonstration prior to attending the demonstration for receiving their assigned demonstration session. Visit requests with security information will be required prior to boarding the buses for the demonstration. Due to the schedule of the conference, all questions and answers will be addressed at the DTE 4 booth in the exhibit hall and not during the demonstration. All participants are required to ride the bus out to Building 4500 and return on the bus. To register for the demonstration please call Ms. Kathryn Lewis at (703) 781-8920 or email at klewis@amtec-corp.com. If a session is full, participants will be placed on a priority waiting list.

Visit requests for attending the demonstration should be faxed to (256) 876-0431, ATTN: DTE 4 Demonstration.

DISTRIBUTED TEST EVENT 4 (DTE 4)

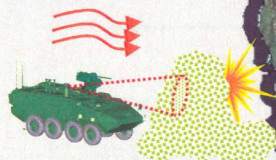
AUG 31 – SEPT 2, 2004

EPG



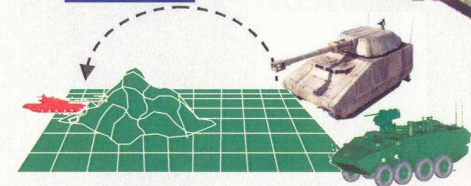
COMM NETS

DPG



STRYKER/CHEM/
WEATHER

YPG



NLOS-C/STRYKER/
TERRAIN

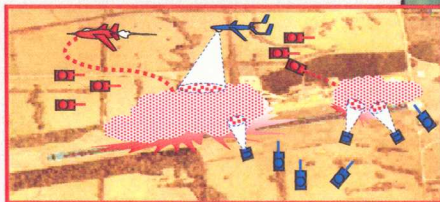
EPG



SHADOW UAV/RF NETS



IRCC/UAV/T-72s/
TEST LOCATION



WSMR

HPCMP
DREN

ATTC



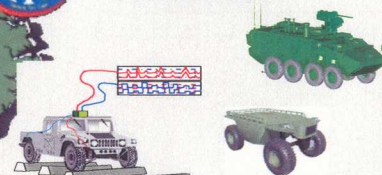
AVIATION

NVL



ARV/UGS/IMS

ATC



STRYKER/MOBILITY/
ROBOTICS

RTTC



UAV/GROUND/
AERIAL SENSORS